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(54) PROJECTION SYSTEM AND METHOD WITH PIXEL SHIFTING

(57) A projection system and method therefor includes a light source configured to emit a light; a spatial light modulator configured to receive the light and generate a modulated light; a lens configured to spatially Fourier transform the modulated light; a filter including an aperture, the filter configured to transmit at least one diffraction order of the modulated light as Fourier-trans-

formed by the lens and to block a remaining portion of the modulated light; and a controller configured to: for each of a plurality of subperiods, cause the projection system to project an image through the filter, and between each of the plurality of subperiods, shift the image by a partial pixel distance.

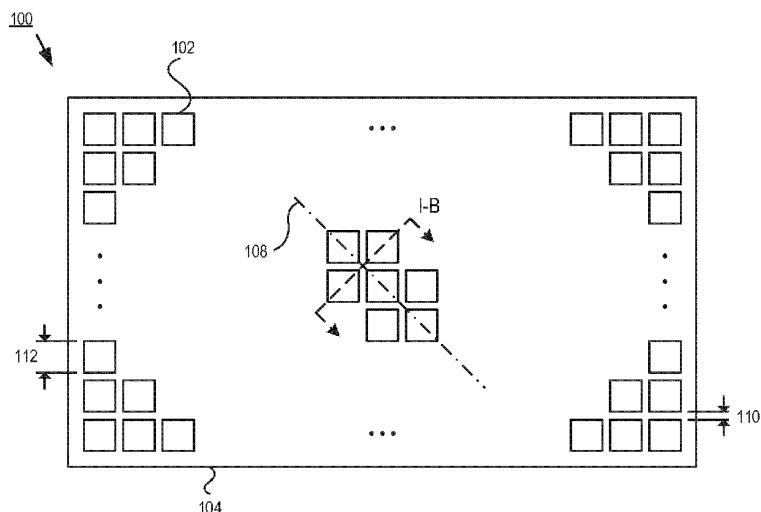


FIG. 1A



EUROPEAN SEARCH REPORT

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	CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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